





Digitized by the Internet Archive  
in 2012 with funding from  
LYRASIS members and Sloan Foundation

<http://archive.org/details/fertilizeranalys00john25>

# CONNECTICUT AGRICULTURAL EXPERIMENT STATION.

Bulletin No. 58, April 28, 1881.

## SUPERPHOSPHATES, GUANOS.

568 Soluble Nitrogenous Phosphate.

567 Pine Island Guano.

The samples named above were manufactured by the Quinnipiac Fertilizer Co. of New London, Ct., and sold by Olds & Whipple, Hartford, Ct.

565 Soluble Pacific Guano, manufactured by the Pacific Guano Co., Boston, Mass., and sold by H. A. Stillman & Co., Hartford, Ct.

561 Mitchell's Standard Phosphate, sold by H. A. Stillman & Co., Hartford, Ct.

|                        | 568     | 567     | 565     | 561     |
|------------------------|---------|---------|---------|---------|
| Soluble phos. acid,    | 5 70    | 5 34    | 5 90    | 0 14    |
| Reverted " "           | 4 61    | 1 93    | 1 36    | 5 08    |
| Insoluble " "          | 1 16    | 0 52    | 4 05    | 2 19    |
| Nitrogen,              | 2 41    | 4 20    | 2 61    | 1 06    |
| Potash,                | 2 70    | 2 94    | 2 28    |         |
| Chlorine,              | 2 84    | 1 08    | 2 45    |         |
| Est. value per ton,    | \$36 01 | \$38 65 | \$35 36 | \$16 36 |
| Cost per ton,          | 40 00   | 45 00   | 45 00   | 40 00   |
| Cost exceeds valuation | 3 99    | 6 35    | 9 64    | 23 64   |

## POTASH SALTS.

559 Sulphate of Potash, imported and sold by the Mape's Formula and Peruvian Guano Co., New York and Hartford.

572 Muriate of Potash, imported by The Bowker Fertilizer Co., Boston and New York, sold by Wilson & Burr, Middletown, Ct., sent by J. M. Hubbard, Middletown.

|                             | 559     | 572     |
|-----------------------------|---------|---------|
| Potash (potassium oxide)    | 43 23   | 49 02   |
| Sulphate of potash,         | 79 95   |         |
| Muriate of potash           |         | 77 63   |
| Chlorine,                   | 0 88    |         |
| Potash guaranteed,          | 43 80   | 50 54*  |
| Cost per ton,               | \$65 00 | \$45 00 |
| Cost per 100 lbs of potash, | 7 52    | 4 59    |

\*"Guaranteed 80-85 per cent. muriate of potash" equals 60.5-53.7 potash.

## SALT, PLASTER.

570 Salt, manufactured by the Onondaga Salt Co., Syracuse, N. Y., sold by Bronson & Fitzgerald, Hartford.

562 Plaster, ground by G. A. London, Berlin, Ct., sold by Olds & Whipple, Hartford.

|                               | 570     | 562    |
|-------------------------------|---------|--------|
| Chlorine,                     | 56 80   |        |
| Sodium chloride,              | 93 60   |        |
| Sulphuric acid,               |         | 44 46  |
| Hydrated sulphate of Lime,    |         | 95 57  |
| Carbonates, etc.,             |         | 1 93   |
| Insoluble matters,            |         | 2 50   |
| Cost per ton,                 | \$10 00 | \$9 00 |
| 100 lbs. of pure gypsum cost, |         | 0 47   |

## BONE, FISH, CASTOR POMACE.

569 Pure Bone Meal, made and sold by the Mape's Formula and Peruvian Guano Co., New York and Hartford.

566 Dry Ground Fish Guano, made by the Quinnipiac

Fertilizer Co., New London, sold by Olds & Whipple, Hartford.

564 Castor Pomace, made by H. J. Baker & Bros., New York, sold by Olds & Whipple, Hartford.

563 Castor Pomace, made by H. J. Baker & Bros., sold by Buckland & Hardin, Glastonbury, Ct.

|                         | 569     | 566     | 564     | 563     |
|-------------------------|---------|---------|---------|---------|
| Nitrogen,               | 2 46    | 8 54    | 5 47    | 5 08    |
| Phos acid,              | 27 46   | 6 96    | 1 61    | 1 60    |
| Potash,                 |         |         | 0 99    | 1 12    |
| Est. value per ton,     | \$40 33 | \$42 51 | \$20 32 | \$18 97 |
| Cost per ton,           | 42 00   | 45 00   | 25 00   | 25 00   |
| Cost exceeds valuation, | 1 67    | 2 49    | 4 68    | 6 03    |

With the exception of 572 all the samples reported in this Bulletin were taken and sent by C. E. Bunce of South Manchester.

The Bone Meal 569 all passed holes of 1-50 inch.

## TRADE VALUES FOR 1881.

For 1881 the following revised Trade Values will be employed for comparing Fertilizers. These values are with two exceptions the same as given in Bulletin 52 and in the the Station Report for 1880. Here the prices of potash in Sulphate and Muriate are increased, the former one-half cent, the latter one cent per pound.

|   | Ots. per lb. |
|---|--------------|
| Nitrogen in nitrates,   | 26           |
| " in ammonia salts,   | 22½          |
| " in Peruvian Guano, fine steamed bone, dried and fine ground blood, meat and fish superphosphates and special manures, | 20           |
| " in coarse or moist blood, meat or tankage, in cotton seed, linseed and castor pomace,                                 | 16           |
| " in fine ground bone, horn and wool dust,  | 15           |
| " in fine medium bone,  | 14           |
| " in medium bone  | 13           |
| " in coarse medium bone,  | 12           |
| " in coarse bone, horn shavings, hair and fish scrap,   | 11           |
| Phosphoric acid soluble in water,   | 12½          |
| " " " "reverted" and in Peruvian Guano,   | 9            |
| " " " "insoluble, in fine bone and fish guano,  | 6            |
| " " " "in fine medium bone,   | 5½           |
| " " " "in medium bone,  | 5            |
| " " " "in coarse medium bone,   | 4½           |
| " " " "in coarse bone, bone ash and bone black,   | 4            |
| " " " "in fine ground rock phosphate,   | 3½           |
| Potash in high grade sulphate,  | 7½           |
| " in low grade sulphate and kainite,  | 5½           |
| " in muriate or potassium chloride,   | 4½           |

There has been some advance in the cost of ammonia salts and animal matters, and, as a consequence, the selling prices of these articles and of superphosphates, etc., are often higher than last year. The Station valuations should be regarded as approximate and while they cannot in every case fix the absolute money value of fertilizers, they may commonly be relied on for purposes of comparison.

S. W. JOHNSON, Director.





